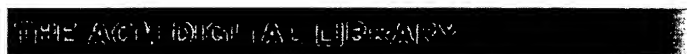



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1 [I/O reference behavior of production database workloads and the TPC benchmarks— an analysis at the logical level](#)



Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

 March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(5.42 MB\)](#)

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As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amounts of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak production database workloads from ten of the world's largest corporations.

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

2 [Parallelism in relational database systems: architectural issues and design approaches](#)



Hamid Pirahesh, C. Mohan, Josephine Cheng, T. S. Liu, Pat Selinger

 July 1990 **Proceedings of the second international symposium on Databases in parallel and distributed systems**

Publisher: ACM Press

 Full text available: [pdf\(2.50 MB\)](#)

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With current systems, some important complex queries may take days to complete because of: (1) the volume of data to be processed, (2) limited aggregate resources. Introducing parallelism addresses the first problem. Cheaper, but powerful computing resources solve the second problem. According to a survey by Brodie, only 10% of computerized data is in database systems. This is an argument for both more variety and volume of data to be moved into database systems. We conjecture ...

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